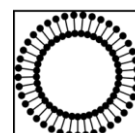
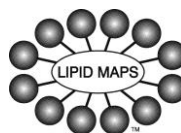


Ceramide/Sphingoid Internal Standard Mix I

Cer/Sph Mixture I (Contains 10 compounds)

LIPIDMAPS™ Compound ID: RF0000000785

**Avanti**[®]
POLAR LIPIDS, INC.

Storage: -20° C (Freezer)
 Manufacture Date: September 2, 2015
 Expiration Date: One year from date of receipt
 Physical Form: Ethanol Solution (1ml per vial)
 Lot Number: LM6002-LM40-115A
 MLOT: 6446EAA115

Certificate of Analysis

Component Name	LipidMAPS ID	Exact Mass (Neutral Form)	Molecular Formula (Neutral Form)	Concentration by LC/MS (µM)
C17 Sphingosine	LMSP01040002	285.27	C ₁₇ H ₃₅ NO ₂	24.2
C17 Sphinganine	LMSP01040003	287.28	C ₁₇ H ₃₇ NO ₂	24.6
C17 Sphingosine-1 Phosphate	LMSP01050007	365.23	C ₁₇ H ₃₆ NO ₅ P	25.4
C17 Sphinganine-1-Phosphate	LMSP01050008	367.25	C ₁₇ H ₃₈ NO ₅ P	25.0
C12 Sphingomyelin	LMSP03010002	646.51	C ₃₅ H ₇₁ N ₂ O ₆ P	24.3
C12 Ceramide	LMSP02010002	481.45	C ₃₀ H ₅₉ NO ₃	24.2
C12 Glucosyl(β) Ceramide	LMSP0501AA01	643.50	C ₃₆ H ₆₉ NO ₈	24.3
C12 Lactosyl(β) Ceramide	LMSP0501AB02	805.56	C ₄₂ H ₇₉ NO ₁₃	24.7
C12 Ceramide-1-Phosphate	LMSP02050001	561.42	C ₃₀ H ₆₀ NO ₆ P	23.8
C25 Ceramide	LMSP02010013	663.65	C ₄₃ H ₈₅ NO ₃	24.4

Approved by:

Avanti Polar Lipids, Inc. 700 Industrial Park Drive, Alabaster, AL 35007-9105, USA

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